ELEVATE LABS INTERN

Abinaya K – <u>abinaya26kannan@gmail.com</u>

Date: 27.10.2025

Task 5: Cloud Database (AWS RDS)

Objective

To understand how cloud databases work by creating a managed MySQL database (AWS RDS), connecting it securely from an EC2 instance, performing basic SQL operations, and learning how to manage and clean up cloud resources effectively

Steps Followed

1. Created an RDS Instance (MySQL, Free Tier) with username and password.

2. Launched an EC2 Instance (Amazon Linux, Free Tier) in the same VPC.

3. Configured Security Groups — allowed inbound traffic on port 3306 from EC2 SG to RDS SG.

4. Installed MySQL Client on EC2 using:

5. sudo yum install -y mariadb105

6. Connected to RDS using the endpoint:

7. mysql -h <rds-endpoint> -u adminuser -p

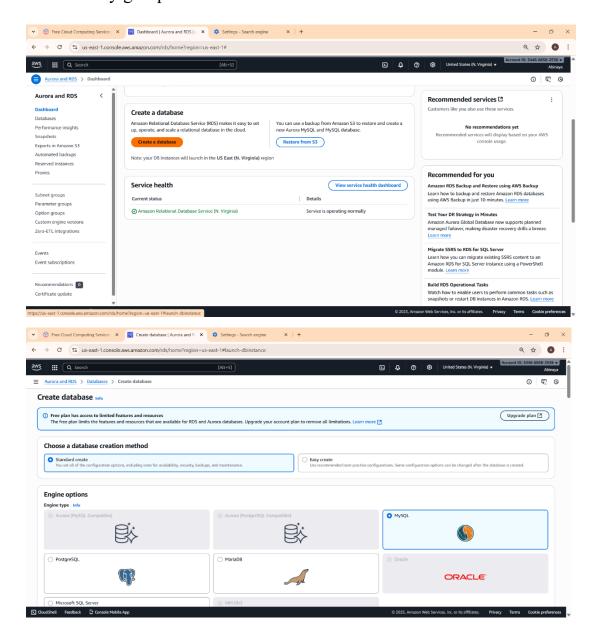
8. Executed SQL Commands to create a database, table, and insert records:

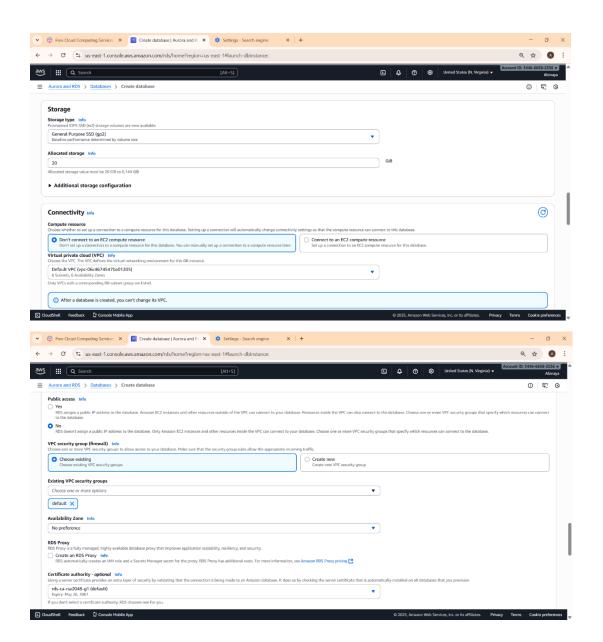
9. CREATE DATABASE intern_demo;

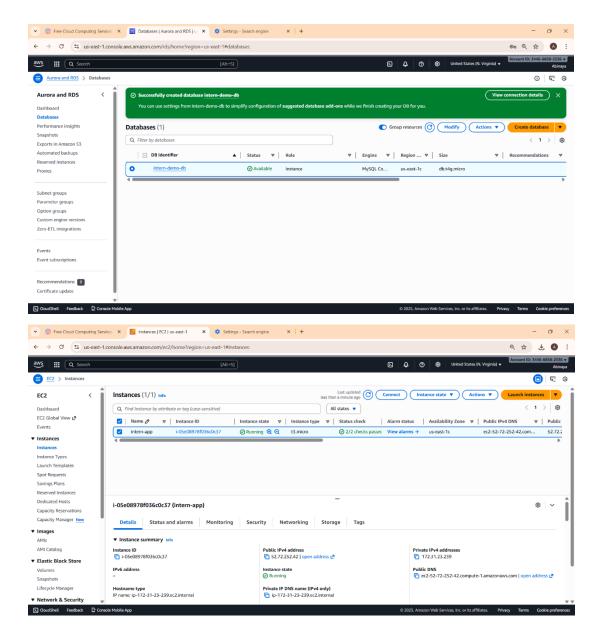
10.USE intern_demo;

11.CREATE TABLE students (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(50), domain VARCHAR(30), score INT);

- 12. INSERT INTO students VALUES (1,'Aarav','Cloud',95);
- 13.SELECT * FROM students;
- 14. Verified Connection and viewed data successfully from EC2 terminal.
- 15. Cleaned up by deleting the RDS instance, EC2 instance, and related security groups.







Conclusion

Through this task, I learned how to deploy, connect, and manage a cloud-hosted database using AWS RDS and EC2. I understood Database-as-a-Service (DBaaS) concepts, network security configuration, and the importance of cleanup to prevent unnecessary charges. This strengthened my practical skills in cloud infrastructure and database management.